
SECTION 1

PRODUCT IDENTIFIER HD 0836 ICI COLORANT - HD EXTERIOR RED (R)
DATE OF PREPARATION JUNE 28, 2002
PRODUCT USE PROTECTIVE COATING

MANUFACTURED BY: ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE,
 CLEVELAND , OHIO 44115, U.S.A.
 ICI PAINTS (CANADA), 8200 KEELE STREET,
 CONCORD, ONTARIO L4K 2A5, CANADA.

EMERGENCY AND MSDS TELEPHONE NUMBER:
 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT
 ICI PAINTS NORTH AMERICA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| | INGREDIENT | WT. %: |
|---------------|---|--------|
| CHEMICAL NAME | ETHANOL, 2,2',2"-NITRILOTRIS- | 1-5 |
| COMMON NAME : | TRIETHANOLAMINE | |
| CAS NUMBER: | 102-71-6 | |
| CHEMICAL NAME | QUINO(2,3-B)ACRIDINE-7,14-DIONE, 5,12-DIHYDRO- | 1-5 |
| COMMON NAME : | QUINACRIDONE RED | |
| CAS NUMBER: | 1047-16-1 | |
| CHEMICAL NAME | 1,2-ETHANEDIOL | 20-30 |
| COMMON NAME : | ETHYLENE GLYCOL | |
| CAS NUMBER: | 107-21-1 | |
| CHEMICAL NAME | ETHANOL, 2,2'-IMINOBIS | .1-1.0 |
| COMMON NAME : | DIETHANOLAMINE | |
| CAS NUMBER: | 111-42-2 | |
| CHEMICAL NAME | POLY(OXY-1,2-ETHANEDIYL, ALPHA-4-NONYLPHENYL) - | 5-10 |
| COMMON NAME : | OMEGA-HYDROXY-, BRANCHED | |
| CAS NUMBER: | GLYCOL ETHER | |
| | 127087-87-0 | |
| CHEMICAL NAME | KAOLIN | 20-30 |

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME : CLAY
CAS NUMBER: 1332-58-7

CHEMICAL NAME BENZOIC ACID, 4-((2,5-DICHLOROPHENYL)AMINO) 10-20
CARBONYL)-2-((2-HYDROXY-3-((2-METHOXYPHENYL)AMINO)
CARBONYL)-1-NAPHTHALENYL)AZO)-, METHYL ESTER

COMMON NAME : MONOAZO RED
CAS NUMBER: 61847-48-1

CHEMICAL NAME WATER 10-20
COMMON NAME : WATER
CAS NUMBER: 7732-18-5

CHEMICAL NAME LECITHINS 1-5
COMMON NAME : LECITHIN
CAS NUMBER: 8002-43-5

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY
LEAD TO MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS
AND/OR LIGHTHEADEDNESS, HEADACHE, COUGHING, CENTRAL NERVOUS
SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION,
DIFFICULTY OF BREATHING, KIDNEY DAMAGE.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE
DERMATITIS, DEFATTING, BLISTERING, SEVERE SKIN IRRITATION.
POSSIBLE SENSITIZATION TO SKIN.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE
CONJUNCTIVITIS, REDNESS OF EYES, SEVERE EYE IRRITATION.

SECTION 3: HAZARDS IDENTIFICATION

INGESTION **INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, SEVERE ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, BURNS OF THE MOUTH, THROAT, STOMACH, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY FAILURE, CARDIAC FAILURE, BRAIN DAMAGE.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
EYE, SKIN, RESPIRATORY DISORDERS
LUNG DISORDERS
KIDNEY DISORDERS
LIVER DISORDERS

SECTION 4: FIRST-AID MEASURES

INHALATION **REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING.**
GET EMERGENCY MEDICAL ATTENTION.
HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

SKIN CONTACT **WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING.**
WASH CONTAMINATED CLOTHING BEFORE RE-USE.

EYE CONTACT **FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.**

INGESTION **IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.**

SECTION 5: FIRE-FIGHTING MEASURES

| | | | |
|--------------------|------|-----------------------|---------------|
| FLASH POINT (SETA) | NONE | LOWER EXPLOSIVE LIMIT | NOT AVAILABLE |
| | | UPPER EXPLOSIVE LIMIT | 10.0 (%) |

FIRE EXTINGUISHING MEDIA
DRY CHEMICAL OR FOAM
WATER FOG.
CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES
WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, PHOSPHOROUS.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : TRIETHANOLAMINE
CAS NUMBER: 102-71-6
ACGIH (TWA) : 5 MG/M3

COMMON NAME : ETHYLENE GLYCOL
CAS NUMBER: 107-21-1
ACGIH (STEL) : C 100 MG/M3

COMMON NAME : DIETHANOLAMINE
CAS NUMBER: 111-42-2
ACGIH (TWA) : SKIN 2 MG/M3

COMMON NAME : CLAY
CAS NUMBER: 1332-58-7
ACGIH (TWA) : 2 MG/M3 OSHA (TWA) : 5 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT
BUILD-UP OF VAPORS.

PERSONAL PROTECTIVE EQUIPMENT
EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
IMPERVIOUS GLOVES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|-----------------|--------------------|-----------------|
| VAPOR PRESSURE: | NOT AVAILABLE | SPECIFIC GRAVITY: | 1.319 |
| BOILING RANGE: | 212-680F/ -360C | WEIGHT PER GALLON: | 10.98/ 13.19IMP |
| %VOLATILE BY VOLUME: | 58.34 | | |
| PHYSICAL STATE: | LIQUID | APPEARANCE | RED |
| SOLUBILITY IN WATER: | NOT AVAILABLE | PH: | NOT AVAILABLE |

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS
STABLE
SEE SECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID
OXIDIZERS, ACIDS, COPPER.
STYRENE MONOMER

CONDITIONS TO AVOID
ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT,
FREEZING, SPARKS, OPEN FLAME.

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME : TRIETHANOLAMINE

CAS NUMBER: 102-71-6

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 8.00 GM/KG ORL RAT

LD50: 1450.00 MG/KG IPR MOU

COMMON NAME : QUINACRIDONE RED

CAS NUMBER: 1047-16-1

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50:> 10.00 GM/KG ORL RAT

COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 4700.00 MG/KG ORL RAT

LD50: 5500.00 MG/KG ORL MOU

COMMON NAME : DIETHANOLAMINE

CAS NUMBER: 111-42-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 12.20 GM/KG SKN RBT

LD50: 710.00 MG/KG ORL RAT

COMMON NAME : GLYCOL ETHER

CAS NUMBER: 127087-87-0

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : MONOAZO RED

CAS NUMBER: 61847-48-1

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50:>2000.00 MG/KG ORL RAT

COMMON NAME : LECITHIN

CAS NUMBER: 8002-43-5

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SECTION 11: TOXICOLOGICAL INFORMATION

SUPPLEMENTAL HEALTH INFORMATION

NO ADDITIONAL EFFECTS ARE ANTICIPATED
OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER,
KIDNEY.

CARCINOGENICITY NOTICE: IN A 2 YEAR STUDY CONDUCTED BY THE NATIONAL
TOXICOLOGY PROGRAM (NTP), THERE WAS CLEAR EVIDENCE OF
CARCINOGENIC ACTIVITY IN MALE AND FEMALE MICE DERMALLY
EXPOSED TO DIETHANOLAMINE BASED ON DEVELOPMENT OF LIVER
AND KIDNEY TUMORS. THERE WAS NO EVIDENCE OF CARCINOGENICITY
IN EITHER MALE OR FEMALE RATS. THE RELEVANCE OF THIS STUDY
TO HUMANS IS NOT KNOWN.

REPRODUCTIVE EFFECTS

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY

SOME LABORATORY TEST RESULTS HAVE SHOWN ETHYLENE GLYCOL TO
BE AN ANIMAL TERATOGEN.

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS
PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
AVOID DISCHARGE TO NATURAL WATERS.

SECTION 14: TRANSPORT INFORMATION

DOT PAINT ** PROTECT FROM FREEZING **
IMDG NOT AVAILABLE
IATA NOT AVAILABLE
TDG NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

| | | SARA 302 | SARA 313 | CERCLA 302.4 | HAZ AIR POLLUTANT | MARINE POLTNT |
|---------------|-----------------|-------------|-------------|-----------------|----------------------|------------------|
| CAS NUMBER: | 107-21-1 | NO | YES | YES | YES | NO |
| COMMON NAME : | ETHYLENE GLYCOL | | | | | |
| CAS NUMBER: | 111-42-2 | NO | YES | NO | YES | NO |
| COMMON NAME : | DIETHANOLAMINE | | | | | |
| CAS NUMBER: | 127087-87-0 | NO | YES | NO | YES | NO |
| COMMON NAME : | GLYCOL ETHER | | | | | |

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE

SECTION 16: OTHER INFORMATION

PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF
YOUR EMPLOYEES AND USERS OF THIS MATERIAL.
COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD
29CFR1910.1200.